Patent App. SN: 10/769,554 Attorney Docket No. 21154 DIV

<u>AMENDMENT</u>

please amend the Claims to read as follows:

- 1. (currently amended) A method of making a diamond composite heat spreader comprising the steps of:
 - a) providing a first plurality of diamond particles having a first average mesh size;
 - b) packing the diamond particles such that each diamond particle is substantially in diamonddiamond contact with at least one other diamond particle;
 - c) providing an interstitial material, said interstitial material including Ag, Cu, Al, Si, or BNi₂; and
 - d) providing a porous ceramic material prior to the step of bonding;
 - e) placing the ceramic material adjacent to the packed diamond particles prior to the step of bonding; and
 - <u>f)</u> infiltrating the interstitial material into the diamond particles in a vacuum furnace at a pressure below about 10-3 torr, thereby bonding the packed diamond particles by the interstitial material with the interstitial material at least partially filling any voids between the packed diamond particles.
- 2. (canceled)
- 3. (canceled)

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- 4. (canceled)
- 5. (previously presented) The method of claim 1, wherein infiltration is performed at a temperature below about 1,100° C.
- 6. (canceled)
- 7. (original) The method of claim 1, wherein the step of packing further comprises packing diamonds to over 50% by volume of the heat spreader prior to providing an interstitial material.
- 8. 10. (canceled)
- 11. (previously presented) The method of claim 1, wherein the diamond particles contact one another sufficiently to provide a continuous diamond-to-diamond path to substantially each of the plurality of diamond particles.
- 12. (canceled)
- 13. (currently amended) The method of claim 12 1, wherein the ceramic material comprises at least 50% by volume of a member selected from the group consisting of SiC, Si₃N₄, Al₂O₃, WC, and ZrO₂.

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- 14. (original) The method of claim 13, wherein the interstitial material is copper and wherein the step of bonding is performed at a pressure between about 4 GPa and about 6 GPa.
- 15. (original) The method of claim 1, wherein the diamond particles have a size of from about 18 mesh to about 400 mesh.

16.-19. (canceled)

- 20. (previously presented) The method of claim 1, wherein the interstitial material is selected from the group consisting of Al, Cu, Ag, and mixtures or alloys thereof.
- 21. (previously presented) The method of claim 1, wherein the interstitial material is a Si alloy of a member selected from the group consisting of Ni, Ti, Al, and Cr.

22-30. (canceled)